Eckhard Jankowsky

List of Publications by Year
in descending order

87	8,234	41	82
papers	citations	h-index	g-index
		71061	58549

91	91	91	8255
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	From unwinding to clamping â€” the DEAD box RNA helicase family. Nature Reviews Molecular Cell Biology, 2011, 12, 505-516.	16.1	886
2	SF1 and SF2 helicases: family matters. Current Opinion in Structural Biology, 2010, 20, 313-324.	2.6	756
3	mda-5: An interferon-inducible putative RNA helicase with double-stranded RNA-dependent ATPase activity and melanoma growth-suppressive properties. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 637-642.	3.3	577
4	RNA helicases at work: binding and rearranging. Trends in Biochemical Sciences, 2011, 36, 19-29.	3.7	449
5	Inherited and Somatic Defects in DDX41 in Myeloid Neoplasms. Cancer Cell, 2015, 27, 658-670.	7.7	341
6	Angiogenin-Cleaved tRNA Halves Interact with Cytochrome <i>c</i>, Protecting Cells from Apoptosis during Osmotic Stress. Molecular and Cellular Biology, 2014, 34, 2450-2463.	1.1	236
7	RNA helicases â€" one fold for many functions. Current Opinion in Structural Biology, 2007, 17, 316-324.	2.6	224
8	Protein Displacement by DExH/D "RNA Helicases" Without Duplex Unwinding. Science, 2004, 304, 730-734.	6.0	218
9	Specificity and nonspecificity in RNAâ€"protein interactions. Nature Reviews Molecular Cell Biology, 2015, 16, 533-544.	16.1	216
10	ATP hydrolysis is required for DEAD-box protein recycling but not for duplex unwinding. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 20209-20214.	3.3	213
11	The DExH protein NPH-II is a processive and directional motor for unwinding RNA. Nature, 2000, 403, 447-451.	13.7	209
12	Stimulation of mammalian translation initiation factor eIF4A activity by a small molecule inhibitor of eukaryotic translation. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 10460-10465.	3.3	209
13	The DEAD-Box Protein Ded1 Modulates Translation by the Formation and Resolution of an eIF4F-mRNA Complex. Molecular Cell, 2011, 43, 962-972.	4.5	203
14	The hepatitis C viral NS3 protein is a processive DNA helicase with cofactor enhanced RNA unwinding. EMBO Journal, 2002, 21, 1168-1176.	3.5	191
15	ATP- and ADP-Dependent Modulation of RNA Unwinding and Strand Annealing Activities by the DEAD-Box Protein DED1. Biochemistry, 2005, 44, 13591-13601.	1.2	165
16	DEAD-box helicases as integrators of RNA, nucleotide and protein binding. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2013, 1829, 884-893.	0.9	164
17	Involvement of DEAD-box Proteins in Group I and Group II Intron Splicing. Biochemical Characterization of Mss116p, ATP Hydrolysis-dependent and -independent Mechanisms, and General RNA Chaperone Activity. Journal of Molecular Biology, 2007, 365, 835-855.	2.0	149
18	The Ded1/DDX3 subfamily of DEAD-box RNA helicases. Critical Reviews in Biochemistry and Molecular Biology, 2014, 49, 343-360.	2.3	147

#	Article	IF	Citations
19	The helicase Ded1p controls use of near-cognate translation initiation codons in 5â€² UTRs. Nature, 2018, 559, 130-134.	13.7	143
20	DEAD-Box Proteins Unwind Duplexes by Local Strand Separation. Molecular Cell, 2007, 28, 253-263.	4.5	141
21	The DEAD-box protein Ded1 unwinds RNA duplexes by a mode distinct from translocating helicases. Nature Structural and Molecular Biology, 2006, 13, 981-986.	3.6	132
22	Dynamic Regulation of Alternative Splicing by Silencers that Modulate 5â€² Splice Site Competition. Cell, 2008, 135, 1224-1236.	13.5	118
23	Remodeling of ribonucleoprotein complexes with DExH/D RNA helicases. Nucleic Acids Research, 2006, 34, 4181-4188.	6.5	116
24	Discovery of Antivirulence Agents against Methicillin-Resistant Staphylococcus aureus. Antimicrobial Agents and Chemotherapy, 2013, 57, 3645-3652.	1.4	116
25	Small molecules as potent biphasic modulators of protein liquid-liquid phase separation. Nature Communications, 2020, 11, 5574.	5.8	96
26	The RNA Helicase Mtr4p Modulates Polyadenylation in the TRAMP Complex. Cell, 2011, 145, 890-901.	13.5	92
27	Hidden specificity in an apparently nonspecific RNA-binding protein. Nature, 2013, 502, 385-388.	13.7	85
28	Degradation of hypomodified tRNA_i^{Met} in vivo involves RNA-dependent ATPase activity of the DExH helicase Mtr4p. Rna, 2008, 14, 107-116.	1.6	84
29	Unwinding by Local Strand Separation Is Critical for the Function of DEAD-Box Proteins as RNA Chaperones. Journal of Molecular Biology, 2009, 389, 674-693.	2.0	76
30	Function of the C-terminal Domain of the DEAD-box Protein Mss116p Analyzed in Vivo and in Vitro. Journal of Molecular Biology, 2008, 375, 1344-1364.	2.0	74
31	Autoinhibitory Interdomain Interactions and Subfamily-specific Extensions Redefine the Catalytic Core of the Human DEAD-box Protein DDX3. Journal of Biological Chemistry, 2016, 291, 2412-2421.	1.6	71
32	Backbone tracking by the SF2 helicase NPH-II. Nature Structural and Molecular Biology, 2004, 11, 526-530.	3.6	69
33	RNA unwinding by the Trf4/Air2/Mtr4 polyadenylation (TRAMP) complex. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 7292-7297.	3.3	65
34	Discriminatory RNP remodeling by the DEAD-box protein DED1. Rna, 2006, 12, 903-912.	1.6	61
35	Do DEAD-Box Proteins Promote Group II Intron Splicing without Unwinding RNA?. Molecular Cell, 2007, 28, 159-166.	4.5	61
36	The RNA helicase database. Nucleic Acids Research, 2011, 39, D338-D341.	6.5	61

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37	Division of Labor in an Oligomer of the DEAD-Box RNA Helicase Ded1p. Molecular Cell, 2015, 59, 541-552.	4.5	60
38	Coupling between the DEAD-box RNA helicases Ded1p and eIF4A. ELife, 2016, 5, .	2.8	55
39	The kinetic landscape of an RNA-binding protein in cells. Nature, 2021, 591, 152-156.	13.7	50
40	[10] Using DNAzylnes to cut, process, and map RNA molecules for structural studies or modification. Methods in Enzymology, 2000, 317, 140-146.	0.4	49
41	Robust Translocation Along a Molecular Monorail: the NS3 Helicase from Hepatitis C Virus Traverses Unusually Large Disruptions in its Track. Journal of Molecular Biology, 2006, 358, 974-982.	2.0	45
42	The DExH/D protein family database. Nucleic Acids Research, 2000, 28, 333-334.	6.5	44
43	DEAD-Box Helicases Form Nucleotide-Dependent, Long-Lived Complexes with RNA. Biochemistry, 2014, 53, 423-433.	1.2	43
44	Biochemical Differences and Similarities between the DEAD-Box Helicase Orthologs DDX3X and Ded1p. Journal of Molecular Biology, 2017, 429, 3730-3742.	2.0	36
45	DEAD-box-protein-assisted RNA Structure Conversion Towards and Against Thermodynamic Equilibrium Values. Journal of Molecular Biology, 2007, 368, 1087-1100.	2.0	35
46	RNA Unwinding Activity of the Hepatitis C Virus NS3 Helicase Is Modulated by the NS5B Polymerase. Biochemistry, 2008, 47, 1126-1135.	1.2	35
47	Intrinsic RNA Binding by the Eukaryotic Initiation Factor 4F Depends on a Minimal RNA Length but Not on the m7G Cap. Journal of Biological Chemistry, 2009, 284, 17742-17750.	1.6	34
48	Duplex Unwinding with DEAD-Box Proteins. Methods in Molecular Biology, 2009, 587, 245-264.	0.4	34
49	Small-molecule AgrA inhibitors F12 and F19 act as antivirulence agents against Gram-positive pathogens. Scientific Reports, 2018, 8, 14578.	1.6	32
50	Approaches for measuring the dynamics of RNAâ€“protein interactions. Wiley Interdisciplinary Reviews RNA, 2020, 11, e1565.	3.2	32
51	Efficient Improvement of Hammerhead Ribozyme Mediated Cleavage of Long Substrates by Oligonucleotide Facilitatorsâ€. Biochemistry, 1996, 35, 15313-15321.	1.2	28
52	AMP Sensing by DEAD-Box RNA Helicases. Journal of Molecular Biology, 2013, 425, 3839-3845.	2.0	28
53	A comparative study of small molecules targeting eIF4A. Rna, 2020, 26, 541-549.	1.6	27
54	DEAD-box RNA helicases Dbp2, Ded1 and Mss116 bind to G-quadruplex nucleic acids and destabilize G-quadruplex RNA. Chemical Communications, 2019, 55, 4467-4470.	2.2	26

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55	An Arabidopsis ATP-Dependent, DEAD-Box RNA Helicase Loses Activity upon IsoAsp Formation but Is Restored by PROTEIN ISOASPARTYL METHYLTRANSFERASE. Plant Cell, 2013, 25, 2573-2586.	3.1	25
56	The RNA helicase Mtr4p is a duplex-sensing translocase. Nature Chemical Biology, 2017, 13, 99-104.	3.9	23
57	The DEAD-box protein Dbp2p is linked to noncoding RNAs, the helicase Sen1p, and R-loops. Rna, 2018, 24, 1693-1705.	1.6	23
58	Mutational analysis of the yeast RNA helicase Sub2p reveals conserved domains required for growth, mRNA export, and genomic stability. Rna, 2013, 19, 1363-1371.	1.6	21
59	Analysis of the RNA Binding Specificity Landscape of C5 Protein Reveals Structure and Sequence Preferences that Direct RNase P Specificity. Cell Chemical Biology, 2016, 23, 1271-1281.	2.5	21
60	Unwinding Initiation by the Viral RNA Helicase NPH-II. Journal of Molecular Biology, 2012, 415, 819-832.	2.0	19
61	Adaptive translational pausing is a hallmark of the cellular response to severe environmental stress. Molecular Cell, 2021, 81, 4191-4208.e8.	4.5	18
62	Oligonucleotide facilitators enable a hammerhead ribozyme to cleave long RNA substrates with multiple-turnover activity. FEBS Journal, 1998, 254, 129-134.	0.2	16
63	RNA Helicases: Versatile ATP-Driven Nanomotors. Journal of Nanoscience and Nanotechnology, 2005, 5, 1983-1989.	0.9	15
64	Duplex Unwinding and RNP Remodeling With RNA Helicases. Methods in Molecular Biology, 2008, 488, 343-355.	0.4	14
65	The contribution of the C5 protein subunit of <i>Escherichia coli</i> ribonuclease P to specificity for precursor tRNA is modulated by proximal 5â€² leader sequences. Rna, 2017, 23, 1502-1511.	1.6	12
66	Mapping specificity landscapes of RNA-protein interactions by high throughput sequencing. Methods, 2017, 118-119, 111-118.	1.9	11
67	Function of Auxiliary Domains of the DEAH/RHA Helicase DHX36 in RNA Remodeling. Journal of Molecular Biology, 2020, 432, 2217-2231.	2.0	11
68	Optimization of high-throughput sequencing kinetics for determining enzymatic rate constants of thousands of RNA substrates. Analytical Biochemistry, 2016, 510, 1-10.	1.1	10
69	Determination of the Specificity Landscape for Ribonuclease P Processing of Precursor tRNA 5â€² Leader Sequences. ACS Chemical Biology, 2016, 11, 2285-2292.	1.6	10
70	Binding of a viral IRES to the 40S subunit occurs in two successive steps mediated by eS25. Nucleic Acids Research, 2020, 48, 8063-8073.	6.5	9
71	G-quadruplex DNA inhibits unwinding activity but promotes liquidâ€"liquid phase separation by the DEAD-box helicase Ded1p. Chemical Communications, 2021, 57, 7445-7448.	2.2	9
72	Analysis of Duplex Unwinding by RNA Helicases Using Stopped-Flow Fluorescence Spectroscopy. Methods in Enzymology, 2012, 511, 1-27.	0.4	8

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73	A helicase links upstream ORFs and RNA structure. Current Genetics, 2019, 65, 453-456.	0.8	8
74	Substrate selectivity by the exonuclease Rrp6p. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 982-992.	3.3	8
75	Active and Passive Destabilization of G-Quadruplex DNA by the Telomere POT1-TPP1 Complex. Journal of Molecular Biology, 2021, 433, 166846.	2.0	7
76	Helicase Multitasking in Ribosome Assembly. Molecular Cell, 2009, 36, 537-538.	4.5	6
77	Indifferent chaperones. Nature, 2007, 449, 999-1000.	13.7	5
78	High throughput approaches to study RNA-protein interactions in vitro. Methods, 2020, 178, 3-10.	1.9	5
79	Helicase snaps back. Nature, 2005, 437, 1245-1245.	13.7	4
80	Alternative RNA degradation pathways by the exonuclease Pop2p from Saccharomyces cerevisiae. Rna, 2021, 27, 465-476.	1.6	3
81	Measuring the impact of cofactors on RNA helicase activities. Methods, 2022, 204, 376-385.	1.9	3
82	DDX41 Is a Tumor Suppressor Gene Associated with Inherited and Acquired Mutations. Blood, 2014, 124, 125-125.	0.6	1
83	From exotic to exciting. Rna, 2015, 21, 655-656.	1.6	0
84	Kinetics of RNAâ€“protein interactions in cells. Trends in Biochemical Sciences, 2021, 46, 861-862.	3.7	0
85	Effect of preâ€tRNA 5â€™ leader sequence variation on the thermodynamic coupling and shared molecular recognition between RNA and protein components of RNase P. FASEB Journal, 2013, 27, 777.2.	0.2	0
86	STEM-08. PLATELETS DRIVES GLIOBLASTOMA ONCOGENESIS BY ENHANCING THE GLIOMA STEM CELL PHENOTYPE. Neuro-Oncology, 2020, 22, ii198-ii198.	0.6	0
87	STEM-04. PLATELETS DRIVE GLIOBLASTOMA ONCOGENESIS BY ENHANCING THE GLIOMA STEM CELL PHENOTYPE. Neuro-Oncology, 2020, 22, ii197-ii197.	0.6	0